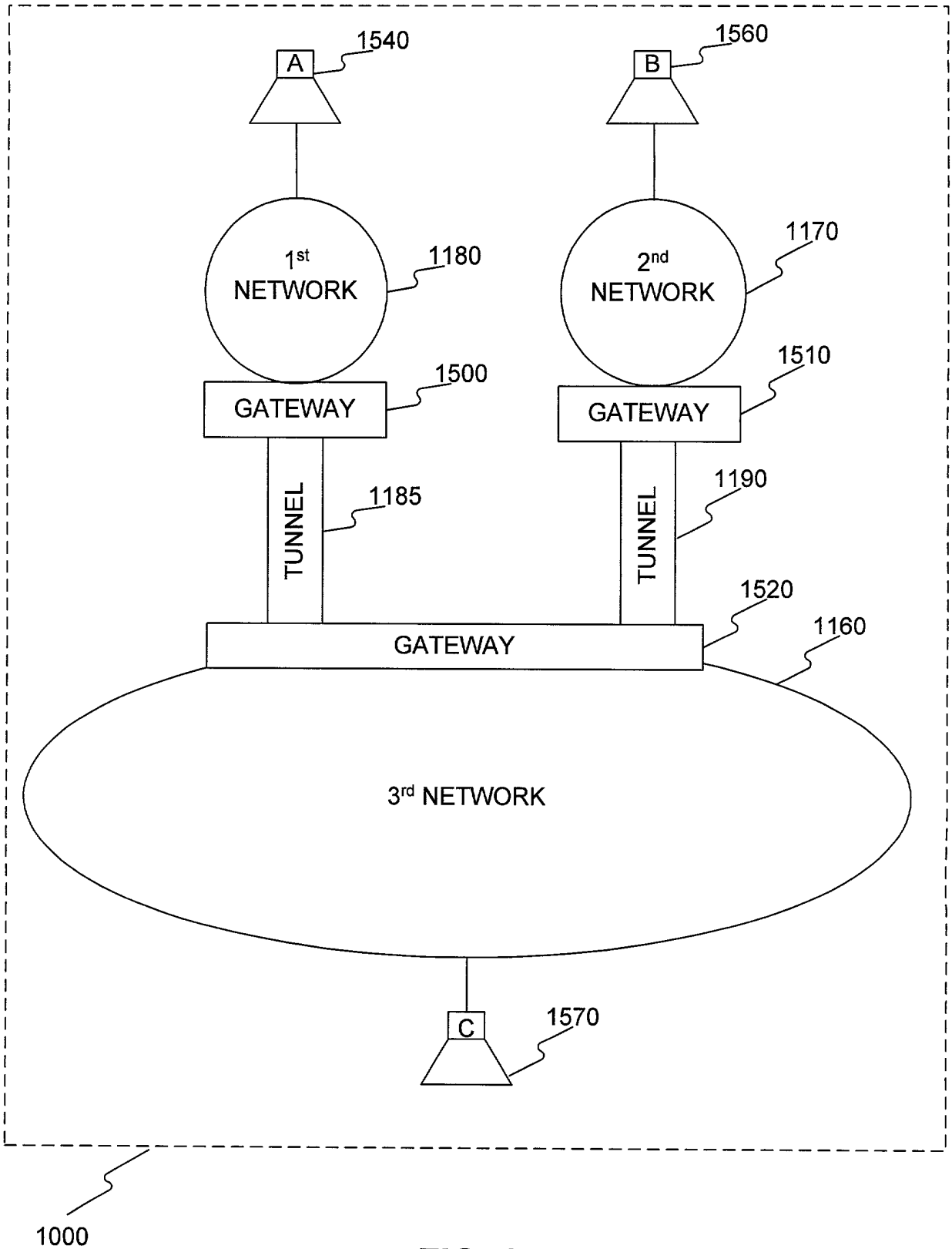
A
1540
B
1560
1st NETWORK
1180
2nd NETWORK
1170
GATEWAY
1500
GATEWAY
1510
TUNNEL
1185
TUNNEL
1190
GATEWAY
1520
1160
3rd NETWORK
C
1570
1000

FIG. 1

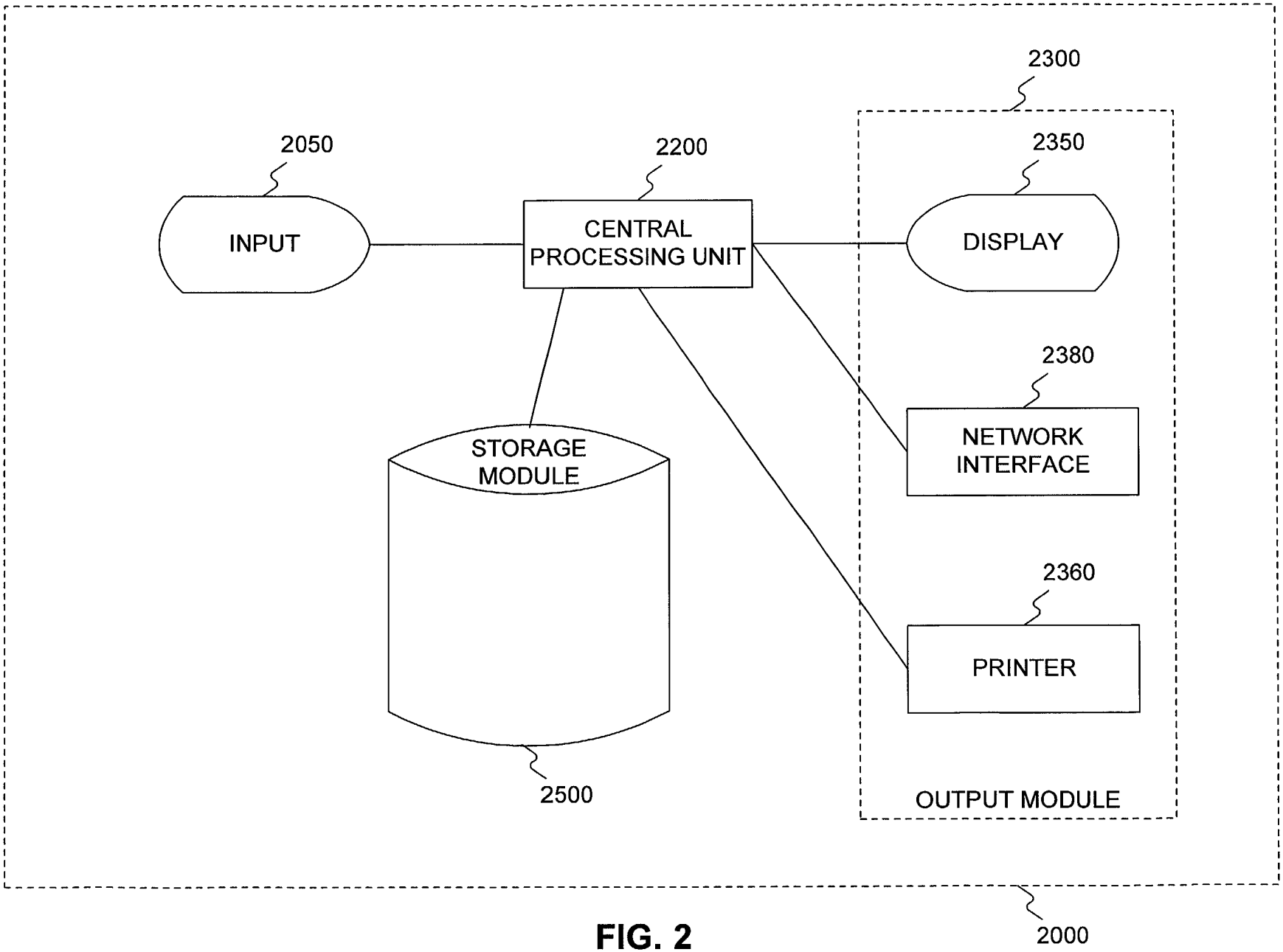
2300
2050
2200
2350
INPUT
CENTRAL PROCESSING UNIT
DISPLAY
2380
NETWORK INTERFACE
STORAGE MODULE
2360
PRINTER
2500
OUTPUT MODULE
2000

FIG. 2

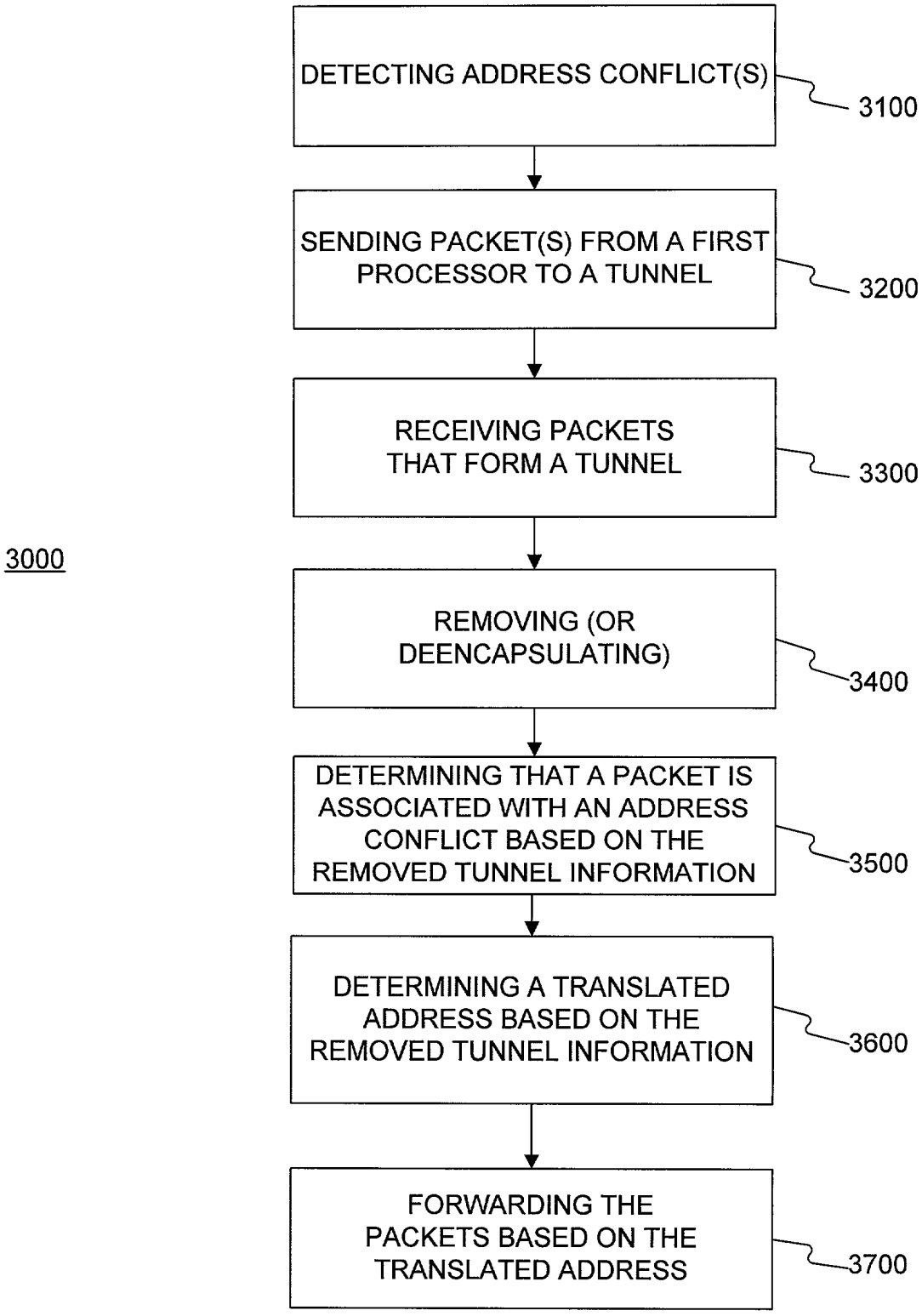
3000
DETECTING ADDRESS CONFLICT(S)
3100
SENDING PACKET(S) FROM A FIRST PROCESSOR TO A TUNNEL
3200
RECEIVING PACKETS THAT FORM A TUNNEL
3300
REMOVING (OR DEENCAPSULATING)
3400
DETERMINING THAT A PACKET IS ASSOCIATED WITH AN ADDRESS CONFLICT BASED ON THE REMOVED TUNNEL INFORMATION
3500
DETERMINING A TRANSLATED ADDRESS BASED ON THE REMOVED TUNNEL INFORMATION
3600
FORWARDING THE PACKETS BASED ON THE TRANSLATED ADDRESS
3700

FIG. 3

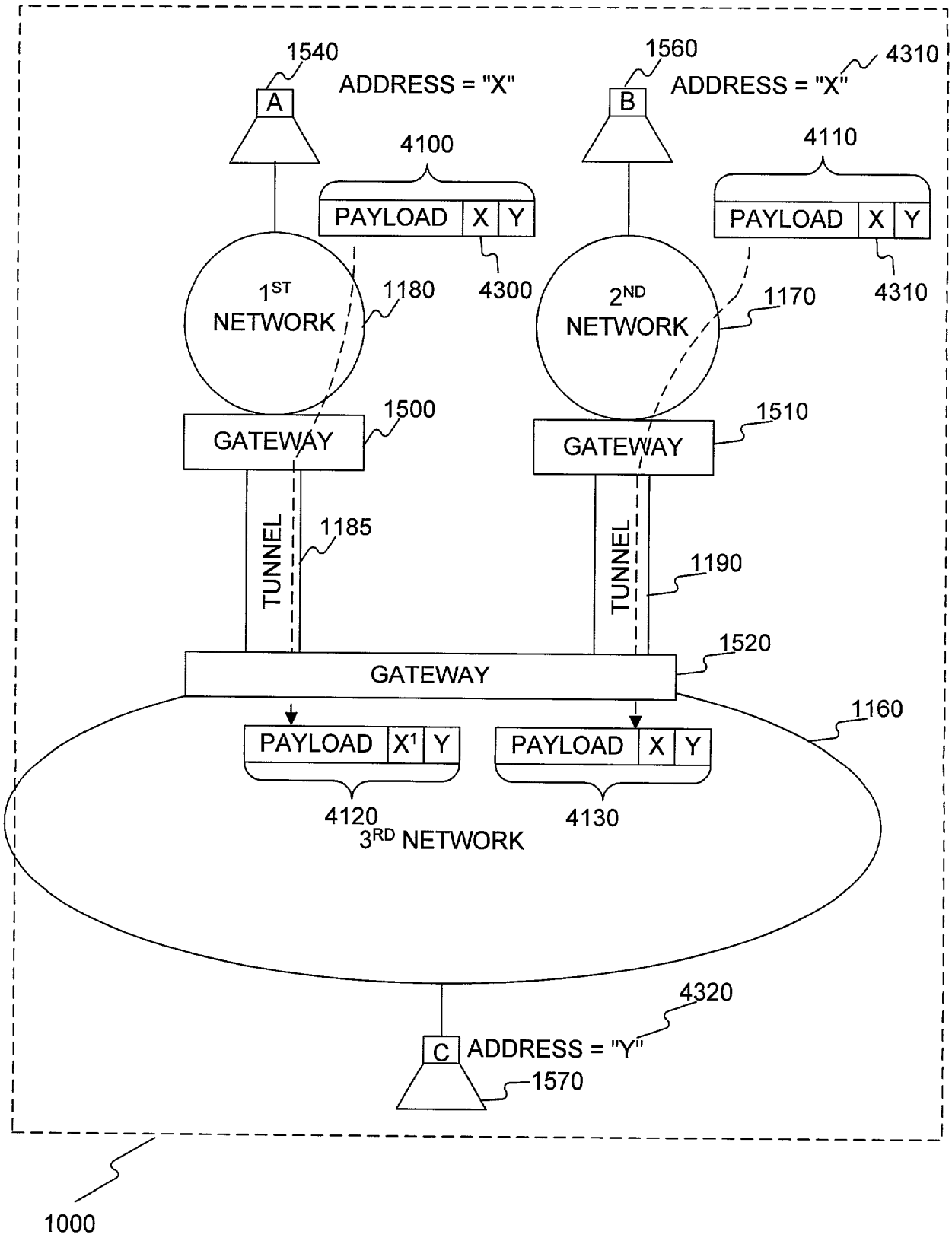
1540
ADDRESS = "X"
A
4100
PAYLOAD
X
Y
1560
ADDRESS = "X"
4310
B
4110
PAYLOAD
X
Y
1ST NETWORK
1180
4300
2ND NETWORK
1170
4310
GATEWAY
1500
GATEWAY
1510
TUNNEL
1185
TUNNEL
1190
GATEWAY
1520
1160
PAYLOAD
X1
Y
PAYLOAD
X
Y
4120
4130
3RD NETWORK
4320
C
ADDRESS = "Y"
1570
1000

FIG. 4

GATEWAY C

PROCESSOR NAME	LOCAL ADDRESS	TUNNEL INFO	TRANSLATED ADDRESS
A	"X"	"10"	"X"
B	"X"	"11"	"X1"

5000

FIG. 5

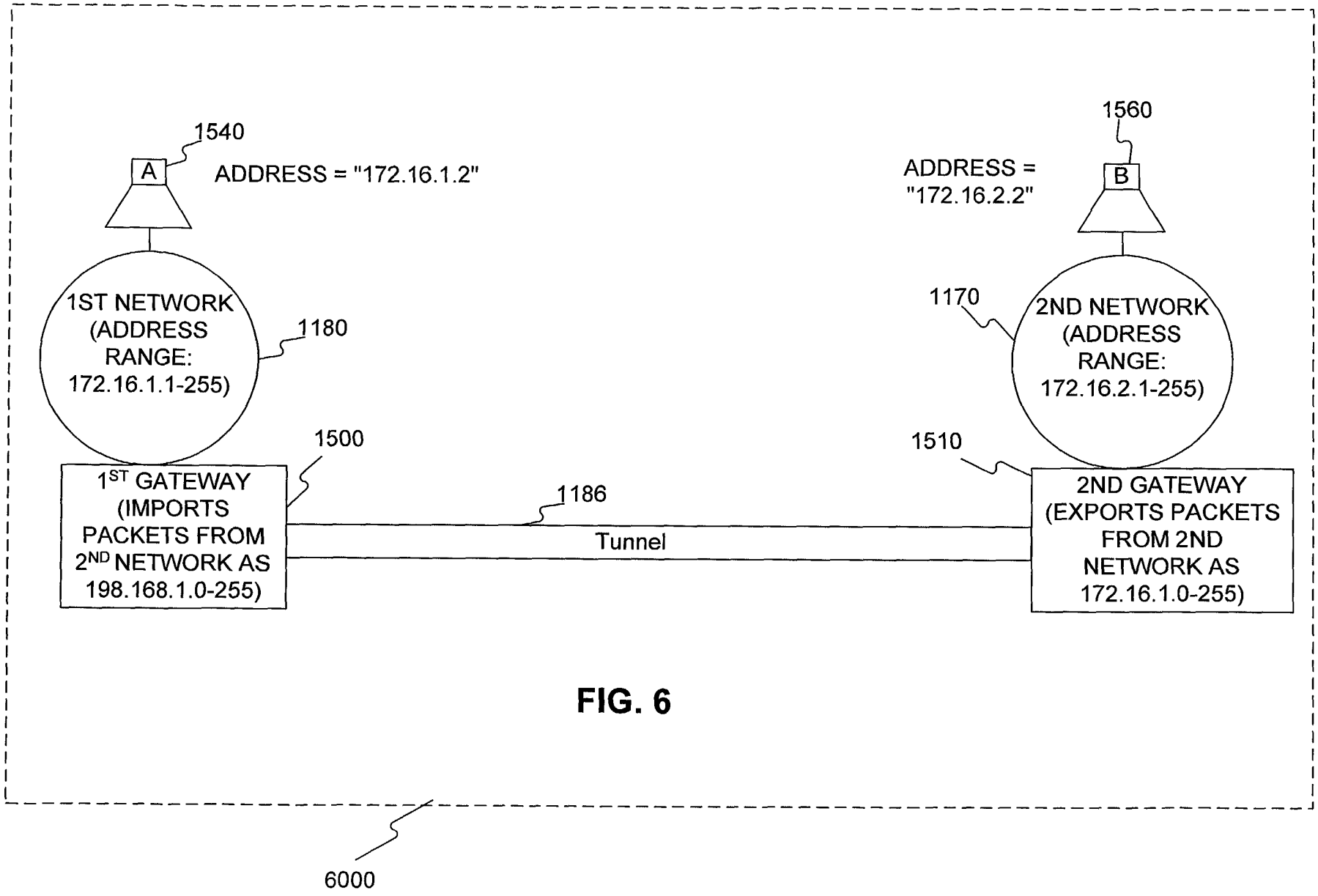
1540
A
ADDRESS = "172.16.1.2"
1560
ADDRESS = "172.16.2.2"
B
1ST NETWORK (ADDRESS RANGE: 172.16.1.1-255)
1180
1170
2ND NETWORK (ADDRESS RANGE: 172.16.2.1-255)
1500
1510
1ST GATEWAY (IMPORTS PACKETS FROM 2ND NETWORK AS 198.168.1.0-255)
1186
Tunnel
2ND GATEWAY (EXPORTS PACKETS FROM 2ND NETWORK AS 172.16.1.0-255)
6000

FIG. 6